Body Builders Layout Book

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WHAT'S NEW

- Updated Weight Charts
- Increased ARC Weights
- 2.0L EcoBoost® FWD is now optional on XL (100A) and XLT (300A)

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INTRODUCTION

IMPORTANT NOTICES

The information described herein is believed to be correct at the time of publication, but accuracy cannot be guaranteed. Ford reserves the right to discontinue models or change specifications or designs at any time without notice and without incurring any obligation.

Representations regarding the compliance of any Ford- manufactured incomplete vehicle to any rule, regulation or standard issued pursuant to the National Traffic and Motor Vehicle Safety Act or the Canadian Motor Vehicle Safety Act are set forth only in the Incomplete Vehicle Manual (IVM) which accompanies each incomplete vehicle.

Regulations such as those issued by the Federal Highway Administration (FHA) or issued pursuant to the Occupational Safety and Health Act (OSHA), and/or state, provincial, and local laws and regulations may require installation of additional equipment for the particular use intended for the vehicle. It is the responsibility of the subsequent stage manufacturer or completed vehicle alterer and the vehicle purchaser to ascertain how the vehicle will ultimately be used, if FHA, OSHA or state provincial or local regulations apply and how the vehicle as completed will comply with those requirements. Nothing contained herein is to be construed as a representation that such equipment required for the particular use intended has been installed on the completed or incomplete vehicle.

REFERENCE INFORMATION

Ford Body Builder Advisory Service Publications

This document is an example of a program-specific Body Builders Layout Book (BBLB) published by the Ford Body Builder Advisory Service (BBAS) team. Each Ford Commercial Truck vehicle line has a similar document that aims to provide detailed information which may be of interest to a subsequent-stage manufacturer or alterer.

The Ford Transit and Transit Connect also have a Body and Equipment Mounting Manual (BEMM), which is a comprehensive resource dedicated to body and equipment mounting information.

Yet another source of program-specific information are the “Vehicle Specification” documents available on the Ford BBAS website. Information typically found in these documents are vehicle curb and accessory weights, vehicle dimensions, component descriptions, capacities, GAWRs, alternator output, powertrain output and gear ratios.

In addition to the program-specific documents, there are several Ford BBLB documents that contain general best practices or information on specific subjects that span multiple vehicle lines. These include:

- General BBLB - contains Definitions, Design Recommendations and Vehicle Storage Guidelines.
- Snowplow BBLB
- Pickup Box Removal BBLB

These publications are updated every model year and can be accessed via the web at https://www.fordpro.com/en-us/upfit/bbas/ under “Publications”. For BBLB and BEMM documents, expand the “Body Builder Layout Book” Section to view all available documents. For Vehicle Specifications, expand the “Vehicle Specifications” section. The website search function can be used to filter for specific content or vehicle line.

Ford Body Builder Advisory Service Bulletins

- Occasionally, the Ford BBAS team will create an SVE “Bulletin” to address a specific issue or distribute important information in a timely manner. These documents can be accessed via the web at https://www.fordpro.com/en-us/upfit/publications/, under “Bulletins”. The website search function can be used to filter for specific content or vehicle line.

If applicable, information from each SVE bulletin will be incorporated into the appropriate BBLB document the following model year. In some cases, SVE bulletins will continue to be referenced in this document.

Ford Body Builder Advisory Service Contact

The Ford Truck Body Builder Advisory Service may be consulted if questions regarding the completion of Ford commercial vehicles are not adequately addressed in the documentation described above. For assistance call (877) 840-4338 or e-mail via the web at https://www.fordpro.com/en-us/upfit/contact-us

- For Ford vehicle CAD requests, please visit https://www.fordpro.com/en-us/upfit/cad/

For both Questions and CAD Requests, please be as specific as possible with the request details to assure the most accurate and timely response.

Ford Service Publications

Ford Service Technical Resources (including wiring diagrams, repair manuals and diagnostic tool support) are available by subscription via the Motorcraft website: www.motorcraftservice.com

The following publications are examples of digital and printed manuals which are available from Helm Incorporated; call 1-800-782-4356 or contact Helm, Inc. at their website www.helminc.com:

- Ford Truck Shop Manuals
- Ford Towing Manuals
- Ford Wiring Diagrams

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MODEL LINEUP

CAB	WB (IN.)	DRIVE	ENGINE	GVWR	PAYLOAD (MAX)(1)	BASE CURB WEIGHT			GAWR (MAX)(3)		AXLE RATING MAX		SPRING RATING MAX		ARC WEIGHT MAX(2)	GCWR (MAX)
						FRONT	REAR	TOTAL	FRONT	REAR	FRONT	REAR	FRONT	REAR		
CREW	121	FWD	2.5L FHEV	5230	1525	2208	1459	3667	2680	2775	2680	2775	4000	5550	**556**	6090
			2.0L GTDI	5100	1547	2144	1373	3517	2620	2760	2620	2760	4000	5550	438	5945
		AWD	2.5L FHEV	5330	1453	2302	1535	3838	2710	2800	2710	2800	4000	5550	**556**	6315 / 8315
			2.0L GTDI	5240	1551	2179	1473	3652	2685	2825	2685	2825	4000	5550	**584**	6130 / 8130
			2.0L GTDI Tremor	5090	1161	2239	1651	3890	2645	2605	2645	2605	4000	5550	320	6255

Notes:
(1).Load rating represents maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight
.
(2).ARC Weight is the maximum allowable weight of regular production options and aftermarket equipment (Accessory Reserve Capacity) above standard equipment for each configuration. Please also refer to footnote 5.

(3).Gross Axle Weight Rating is determined by the rated capacity of the minimum component of the axle system (axle, springs, wheels, tires) of a specific vehicle. Front and rear GAWRs will, in all cases, sum to a number equal to or greater than the GVWR for the particular vehicle. Maximum loaded vehicle (including passengers, equipment and payload) cannot exceed the GVW rating or GAWR (front or rear).

(4).Base Curb Weights shown above are for truck models with standard equipment. Please also refer to footnote 3

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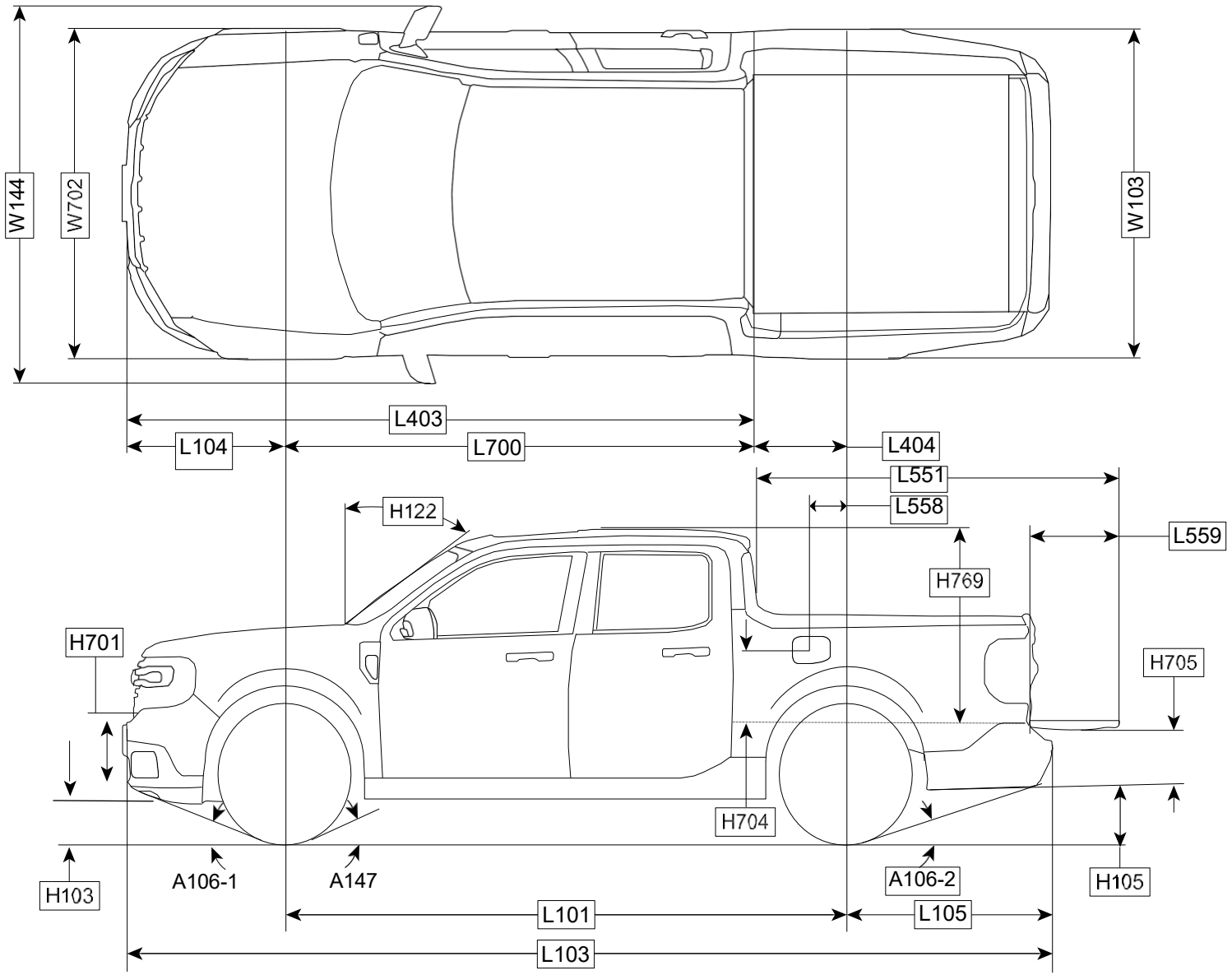
DIMENSIONAL DATA: CREW CAB



- L404, L404, L700, L551a Measured From Rearmost Point Of Glass
- L551 Measured From Rearmost Point Of Hat Section

NOTE- [ ] DIMENSION ARE INCHES

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DIMENSIONAL DATA: RIDE HEIGHT, CAB HEIGHT & FRAME LENGTH

CHASSIS DIMENSIONAL INFORMATION

CODE	DESCRIPTION	Crew Cab			
		2.5L FHEV	2.0L ICE	Tremor ICE	Lobo ICE
		225/65R17	225/65R17	235/65R17	225/55R19
		FWD	AWD	AWD	AWD
H103 (H103-1)	BOTTOM OF FRONT BUMPER VALANCE TO GROUND @ CURB (BASE TIRE)	210	219	249	210
H105 (H103-2)	BOTTOM OF REAR BUMPER VALANCE TO GROUND @ CURB (BASE TIRE)	366	349	367	323
A106-1	APPROACH ANGLE @ CURB (DEGREES)	20.3	21.1	30.8	19
A106-2	DEPARTURE ANGLE @ CURB (DEGREES) (TAKEN AT BOTTOM OF BUMPER)	22.2	21.1	21.6	19.3
A147	RAMP BREAKOVER ANGLE @ CURB (DEGREES)	16.7	18.3	20.1	17.0
L101	WHEELBASE	3077	3077	3075	3077
L103	VEHICLE LENGTH	5076	5076	5096	5102
L104	FRONT OVERHANG (NO LICENSE PLATE BRACKET)	869	869	875	882
L105	REAR OVERHANG	1131	1131	1146	1144
L403	FRONT OF BUMPER TO BACK OF CAB	3497	3497	3504	3511
L404	CAB TO CENTERLINE OF REAR AXLE	493	493	490	493
LXXX	REAR OF BACK GLASS TO REAR OF CAB BACK HAT SECTION	44.4	44.4	44.4	44.4
L700	CENTERLINE OF FRONT AXLE TO BACK OF CAB	2584	2584	2584	2584

CAB DIMENSIONAL INFORMATION

CODE	DESCRIPTION	Crew Cab			
		2.5L FHEV	2.0L ICE	Tremor ICE	Lobo ICE
		225/65R17	225/65R17	235/65R17	225/55R19
		FWD	AWD	AWD	AWD
H122 (A130-1)	WINDSHIELD ANGLE (DEGREES)	53.5	53.5	53.5	53.5
H701	FRONT BUMPER HEIGHT W/ VALENCES	463	463	461	462
W103	VEHICLE BODY WIDTH (MAX W/O MIRRORS)	1844	1844	1844	1844
W144	VEHICLE WIDTH (MAX W/ STANDARD MIRRORS)	2122	2122	2122	2122
W702 (W106)	FRONT BUMPER WIDTH	1814	1814	1814	1814

PICKUP BODY DIMENSIONAL INFORMATION

CODE	DESCRIPTION	Crew Cab			
		2.5L FHEV	2.0L ICE	Tremor ICE	Lobo ICE
		225/65R17	225/65R17	235/65R17	225/55R19
		FWD	AWD	AWD	AWD
NOMINAL CARGO BODY SIZE		**4.5 FT**			
H704	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO CL OF FUEL FILLER DOOR	**335**	**335**	**335**	**335**
H705	REAR BUMPER HEIGHT WITH TAILGATE CLOSED	295	295	295	295
H769	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO TOP OF CAB @ CL OF REAR AXLE	963	963	963	963
L504	CAB TO PICKUP BOX	N/A (unibody construction)			
L551	BOX OVERALL LENGTH TO OPEN TAILGATE (MINIMUM)	1972	1972	1972	1972
L551a	BOX OVERALL LENGTH TO OPEN TAILGATE (MINIMUM)	2016.6	2016.6	2016	2016.6
L558	CENTERLINE OF REAR AXLE TO CENTERLINE OF FUEL FILLER DOOR	191	191	189	191
L559	LENGTH OF OPEN TAILGATE FRONT END OF BOX FLOOR	629.6	629.6	629.6	629.7

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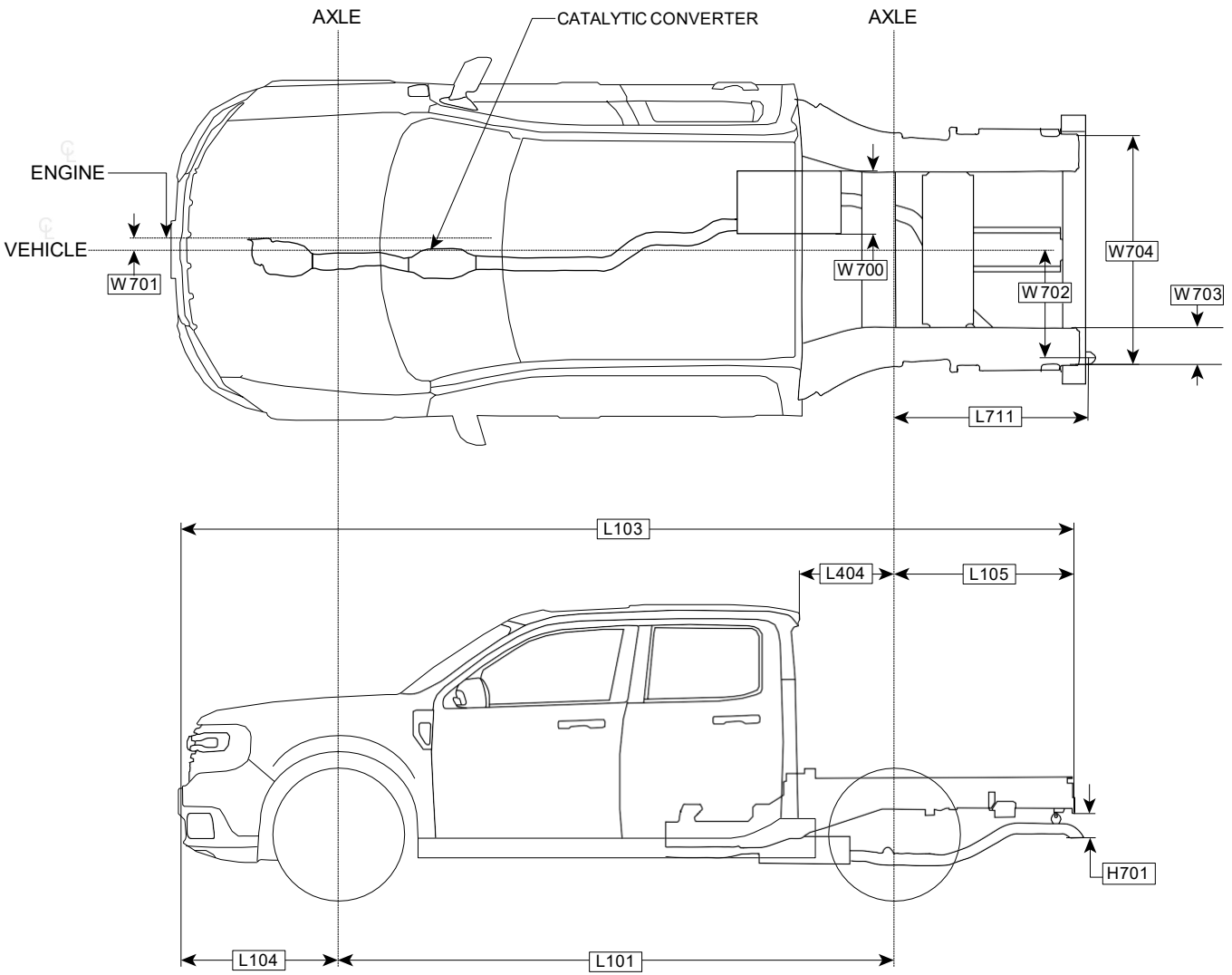
DIMENSIONAL DATA



CODE	DESCRIPTION	UNITS	2.5L FHEV	2.0L ICE	Tremor ICE	Lobo ICE
			225/65 R17x7	225/65R 17x7	235/65R 17x7	225/55R1 9x7.5
			FWD	AWD	AWD	AWD
L101	Wheel Base	mm	3077	3077	3075	3077
L103	Vehicle Length	mm	5076	5076	5096	5102
H101	Vehicle Height - Maximum	mm	1748	1740	1762	1719
W103	Vehicle Width*	mm	1844	1844	1844	1844
W116	Body Width - Maximum	mm	1839	1839	1839	1839
W144	Vehicle Width - Including Outside Mirrors	mm	2122	2122	2122	2122
W145	Vehicle Width - with Mirrors Folded	mm	1979	1979	1979	1979
W102-1	Vehicle Track Front Curb	mm	1616	1614	1603	1618
W102-2	Vehicle Track Rear Curb	mm	1601	1591	1586	1603
L104	Front Overhang	mm	869	869	875	882
L105	Rear Overhang	mm	1131	1131	1146	1144
A106-1	Approach Angle	deg	20.3	21.1	30.8	19
A106-2	Departure Angle	deg	22.2	21.1	21.6	19.3
A147	Ramp Breakover Angle - Curb	deg	16.7	18.3	20.1	17
H156	Minimum Running Ground Clearance	mm	206	211	231	187
L403	Front of Bumper to Back of Cab	mm	3497	3497	3504	3511
L404	CAB TO CENTERLINE OF REAR AXLE	mm	493	493	490	493

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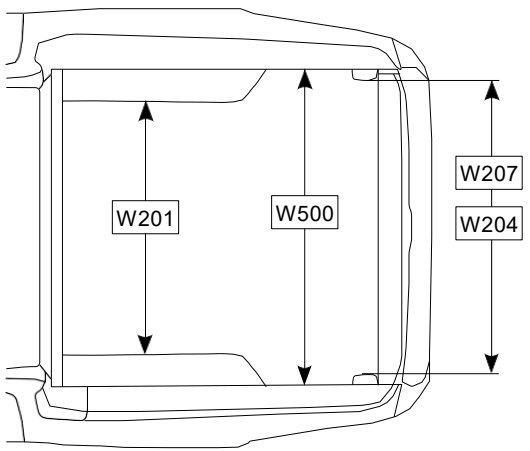
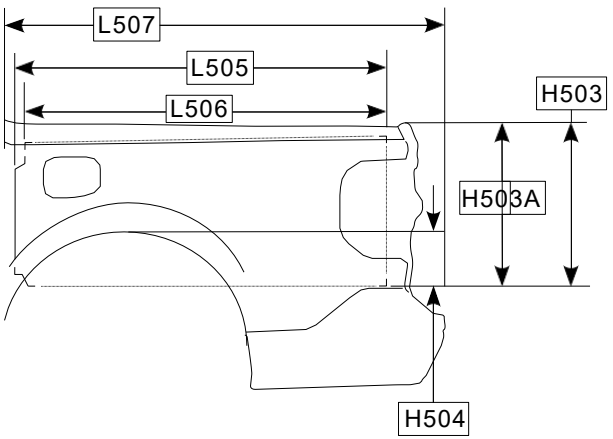
DIMENSIONAL DATA: PICKUP BED





CODE	DESCRIPTION	Crew Cab			
		2.5L FHEV	2.0L ICE	Tremor ICE	Lobo ICE
		225_65R17x7	225_65R17x7	235_65R17x7	225_55R19x7.5
		FWD	AWD	AWD	AWD
NOMINAL CARGO BODY SIZE		4.5 FT			
H503	CARGO BODY HEIGHT W/ MOLDING	516	516	516	516
H503A	CARGO BODY HEIGHT WITHOUT MOLDING @ CL OF REAR AXLE	500	500	500	500
H504	WHEELHOUSE HEIGHT WITH MOLDING	175	175	175	175
L505	CARGO BODY LENGTH @ FLOOR	1382	1382	1382	1382
L506	CARGO BODY L506 LENGTH @ TOP (BELT)	1350	1350	1350	1350
L507	CARGO BODY OVERALL LENGTH (INCLUDES TAILGATE HANDLE BEZEL & BADGE)	N/A (unibody construction)			
W201	CARGO WIDTH AT WHEELHOUSE	1082	1082	1082	1082
W204	REAR OPENING WIDTH @ TOP (BELT)	1264	1264	1264	1264
W207	REAR OPENING WIDTH AT FLOOR	1264	1264	1264	1264
W500	EXPOSED CARGO WIDTH	1353	1353	1353	1353
V5	CARGO VOLUME - LITERS	943	943	943	943

NOTE- [ ] DIMENSION ARE INCHES

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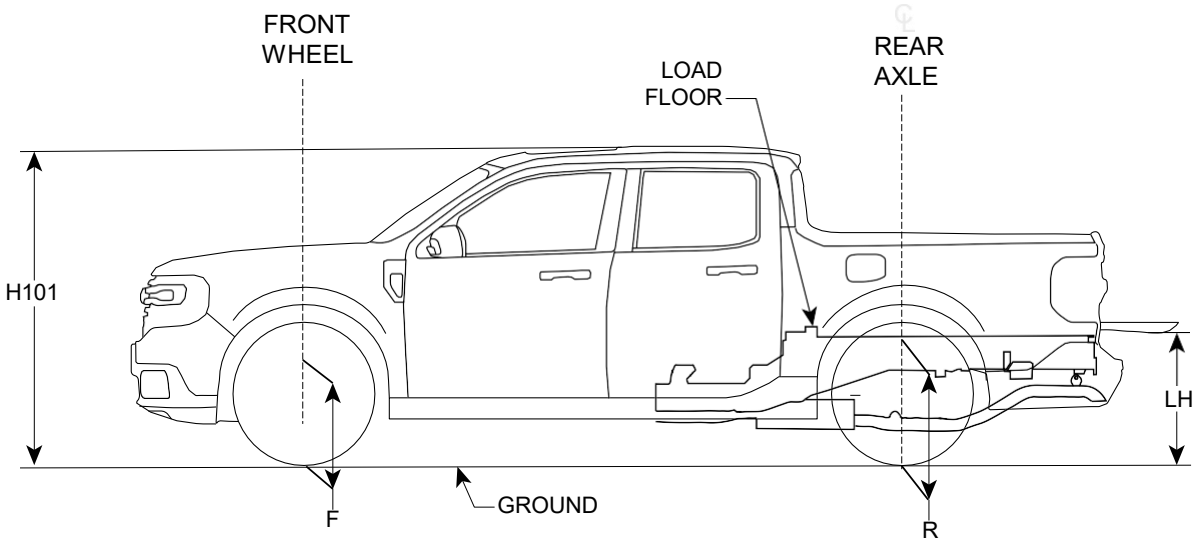
VEHICLE HEIGHT



CODE	DESCRIPTION	Crew Cab			
		2.5L FHEV	2.0L ICE	Tremor ICE	Lobo ICE
		225/65R17x7	225/65R17x7	235/65R17x7	225/55R19x7.5
		FWD	AWD	AWD	AWD
H101	Vehicle Height - Maximum	1748	1740	1762	1719
W102-1	Vehicle Track Front Curb	1616	1614	1603	1618
W102-2	Vehicle Track Rear Curb	1601	1591	1586	1603

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DIMENSIONAL DATA: TIRE DIMENSIONS AND WHEEL/TIRE RATINGS

TIRE DIMENSIONS				
Size	Type	Rim Width (in.)	Section Width (mm)	SLR (mm)
225/65/R17	Road	7	225	333.8
225/55/R19	Road	7.5	225	339
235/65/R17	Road	7	235	340.8
215/60/R17	Spare	7	215	315.5
T155/70/D17	Spare	4	155	298

WHEEL SPECIFICATIONS										
Wheel Style	Type	Wheel Size (in.)	Wheel Offset (mm)	Bolt Circle (mm)	No. of Studs	Lug Size	Max Wheel Capacity Load Front (kg)	Max Wheel Capacity Load Rear (kg)	Max Wheel Capacity Load Front (lbf)	Max Wheel Capacity Load Rear (lbf)
Sparkle Silver, Steel	Road	17x7.0	37.5	107.95	5	14mm	613	677	1355	1412
Carbonized Gray, Alloy	Road	17x7.0	37.5	107.95	5	14mm	613	677	1355	1412
Gloss Black/Machined	Road	19x7.5	37.5	107.95	5	14mm	613	677	1355	1412
Ebony Black, Machined Alloy	Road	19x7.5	37.5	107.95	5	14mm	613	677	1355	1412
Sparkle Silver, Steel	Spare	17x7.0	37.5	107.95	5	14mm	613	677	1355	1412
Black, Steel	Spare	17x4.0	25.0	107.95	5	14mm	613	677	1355	1412

NOTE- [ ] DIMENSION ARE INCHES

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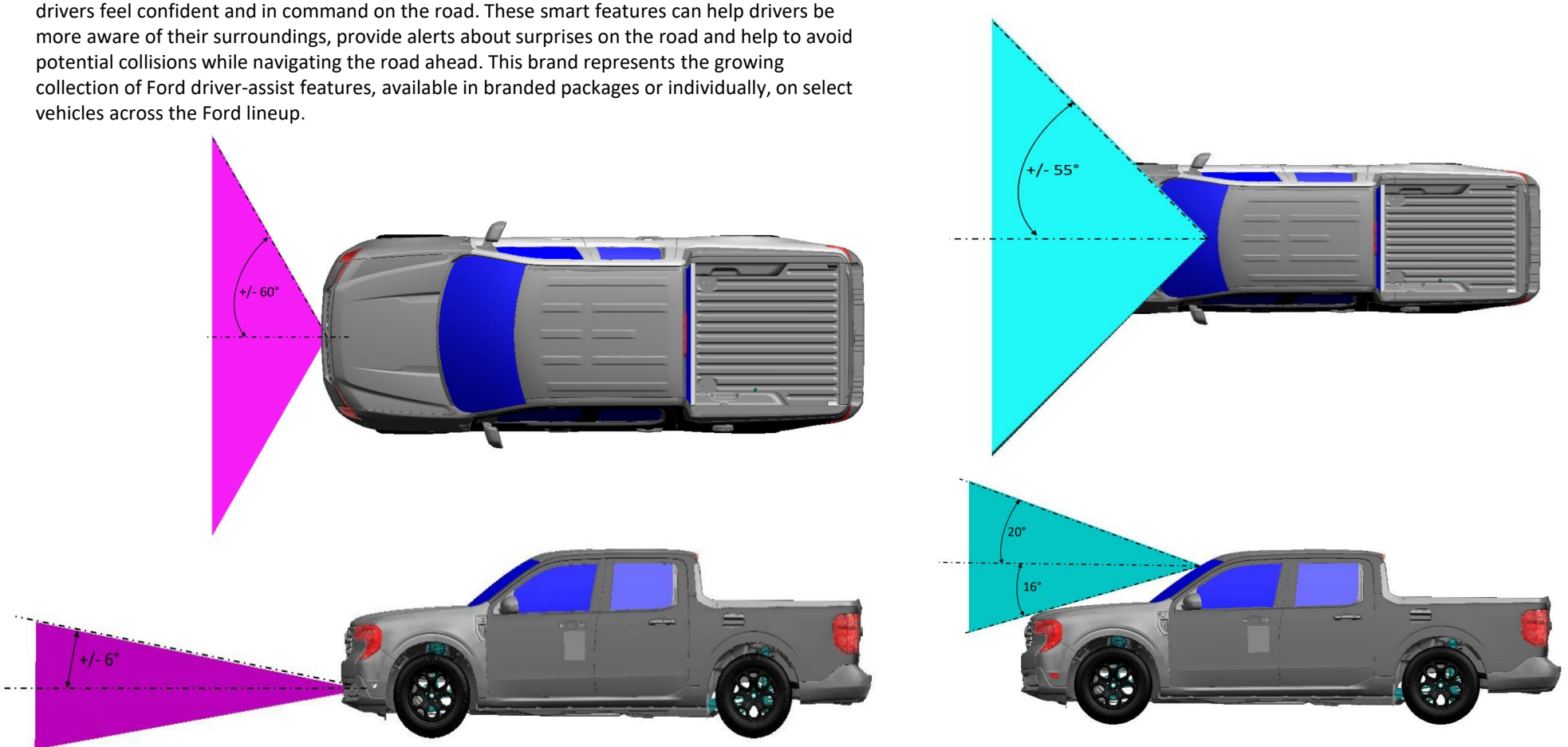
FORD CO-PILOT360™ TECHNOLOGY

FORD CO-PILOT360™

Ford Co-Pilot360 Technology is a collection of advanced driver-assist features designed to help drivers feel confident and in command on the road. These smart features can help drivers be more aware of their surroundings, provide alerts about surprises on the road and help to avoid potential collisions while navigating the road ahead. This brand represents the growing collection of Ford driver-assist features, available in branded packages or individually, on select vehicles across the Ford lineup.



Radar position may change to a higher location based on trim level

IMPORTANT:

Installed upfitter equipment should not infringe on the radar or camera view zones. Do not move or modify the radar or camera locations. There are 2 radar locations based on trim level. The CAD files of the radar and camera view zones are available upon request via the Ford BBAS web site (https://www.fordpro.com/en-us/upfit/cad/).

NOTE: Specific features vary by vehicle and trim, or series level. Consult the vehicle Product Order Guide

- ADAS hardware cannot be added to vehicle post production.
- Not recommend equipping vehicles with winch systems, cones, cables, license plates (center) which could possibly obstruct/interfere with radar and camera “field of view”
- Not recommend applying paint or decals to radar or cover which could possibly obstruct/interfere radar field of view
- Not recommend applying decals or objects to the front of windshield which could possibly obstruct/interfere camera “field of view.” Over roof systems that extend forward of windshield ensure that it does not interfere with camera “field of view”.
- Not recommend changing tire sizes to prevent an incorrect speedometer signal being sent to the radar and camera